STUDY OF SELECTED FISHING OPERATIONS

IN

NEW BRUNSWICK

1983

New Brunswick Department of Fisheries

Resource Policy and Planning Branch

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FOREWORD

Each year, the Resource Policy and Planning Branch of the New Brunswick Department of Fisheries conducts profitability studies in the various sectors of the fishing fleet in order to obtain necessary information and to meet the needs of the fishing industry.

In this report, sixty-nine (69) fishing vessels are studied: forty (40) inshore from the North and Southeast of the province, fifteen (15) midshore from the Northeast of the province, and fourteen (14) from the Bay of Fundy area, mainly Grand Manan, Campobello, and Deer Island.

The results obtained from the vessels studied seem to provide a fairly accurate representation of the situation of the fishing fleet in the North and Southeast of the province. Even though selection was based on the voluntary participation of fishermen, the results do not seem to indicate a predominance of good fishermen over the less successful.

The data relating to the vessels studied in the Bay of Fundy must be interpreted with great care and considered as preliminary results. Study has just begun in this region and totally reliable data should not be expected. Only with time can we hope to obtain coherently presented results.

All of the vessels studied belong to captains who are either sole owners or co-owners. They are therefore responsible for the fishing operations and the ensuing financial results.

Over the years, the cooperation of these vessel captains has been admirable. The Department of Fisheries and Oceans provided some financial assistance for completion of this work in the Scotia-Fundy and the Gulf of St. Lawerence regions. Representatives of the New Brunswick Department of Fisheries also lent their support to the project. We should also mention Mrs. Velma Losier of Grand Manan who was responsiblo for gathering data for the Bay of Fundy region, as well as Mr. Conrad Godin who helped to compile the data. Mrs. Géraldine Savoie was willing to type the report.

Very sincere thanks are extended to these people and to all who made a contribution.

Eudore Dugas
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INTRODUCTION

The program of 1983 was originally intended to include eighty (80) vessels. However, because of lack of time and adequate data, only sixty-nine (69) are included in this report.

It should be noted that inshore vessels (less than 50 feet) from the North and Southeast of the province are grouped by fishing locality, and are identified by a number and the name of the locality concerned. They are divided into two categories, i.e., lobster boats which fish mainly lobster (Groups 1, 3, 5, 6, 7, 8, 9, and 10), and herring boats whose main activity is herring fishing (Groups 2 and 4).

Midshore vessels from the Northeast of the province are grouped according to the type of fishing gear used, i.e., crab pot, Scottish seine, shrimp net, or groundfish trawl.

In the Bay of Fundy region, a new category of vessels, known as longliners, has just been added to those already studied. It can be said that there are four groups of vessels in this region. The first two groups are distinguished by their

hull structure, either in wood or fibreglass; the other two are grouped according to the type of fishing gear used, i.e., purse seine or longline.

At the end of the report there is a section dealing with the socioeconomic data. This is merely a continuation of last year's data which were based on a socioeconomic questionnaire.

1. DESCRIPTION OF VESSELS

Table 1 indicates the features and number of the vessels studied in each group. The average age of inshore boats (Groups 1 - 10) is 8 years, midshore boats (Groups 11 - 14) are 11 years old, as are the boats from the Bay of Fundy region (Groups 15 - 17).

As Table 2 indicates, the electronic equipment used varies with each group. Hence, the forty (40) inshore boats (Groups 1 - 10) have the following devices:

43 sounders
10 radio telephones
13 lorans
8 radars
38 standard radio or C.B.(Citizens Band) services

The fifteen (15) midshore vessels (Groups 11 - 14) have the following instruments:

32 sounders
40 radio telephones
26 lorans
30 radars
3 Decca navigators
8 standard radio or C.B. services

The fourteen (14) vessels from the Bay of Fundy have the following electronic equipment:

16 sounders
20 radio telephones
11 lorans
18 radars
5 sonars
5 standard radio or C.B. services

It should be noted that, in comparison with last year, there was an increase in the number of lorans on inshore vessels, whereas the Decca navigators on the midshore boats decreased.

Table 1 - Description of Selected Vessels in New Brunswick

Localities and types of vessel (Groups 1 - 18)	Vessels included in sample	Hull	Average per group		
			Age	(1) O.L.	Gross tonnage
	(number)		(years)	(feet)	
1. North and Southeast Shores					
Inshore					
1. Stonehaven-Maisonnette	4	wood	5	35	9
2. Caraquet	4	wood	7	48	18
3. Lamèque-Shippagan	4	wood	6	35	9
4. Lamèque-Shippagan	4	wood	8	45	15
5. Val Comeau-Néguac	4	wood	10	43	13
6. Baie-Ste-Anne	4	wood	6	43	14
7. Pointe Sapin	4	wood	9	39	10
8. Richibuctou	4	wood	10	44	13
9. Cap-Pelé	4	wood	10	42	12
10. Cape Tormentine	4	wood	9	44	13
Midshore					
11. Crabbers	3	wood	12	64	57
12. Scottish Seiners	4	wood	11	64	58
13. Crabbers and Scottish Seiners	4	steel	5	65	81
14. Shrimpers	4	wood	19	85	126
11. Bay of Fundy					
15. Multi-purpose	4	wood	9	41	15
16. Multi-purpose	3	fibreglass	4	42	24
17. Herring Seiners	3	wood	18	60	51
18. Longliners	4	wood	12	41	16

(1) O.L.: Overall Length.

Localities and types vessel (Groups 1-18)	Vessels in sample	Devices Used					
		Sounder	(1)Radio telephone	Loran Radar	Decca Navigator		Sonar
	number	number	number	number	number	number	number
I. North and Southeast							
Inshore							
1. Stonehaven-Maisonnette	4	3	3	-	-	-	-
2. Caraquet	4	7	8	-	3	-	-
3. Lamèque-Shippagan	4	4	5	1	-	-	-
4. Lamèque-Shippagan	4	4	6	-	2	-	-
5. Val-Comeau-Néguac	4	4	4	-	-	-	-
6. Baie-Ste-Anne	4	5	5	3	1	-	-
7. Pointe Sapin	4	3	4	1	-	-	-
8. Richibuctou	4	4	4	3	-	-	-
9. Cap-Pelé	4	4	4	3	-	-	-
10. Cape Tormentine	4	5	5	2	2	-	-
Midshore							
11. Crabbers	3	6	8	5	6	-	-
12. Scottish Seiners	4	8	13	7	8	2	-
13. Crabbers and Scottish Seiners	4	9	10	6	8	1	-
14. Shrimpers	4	9	17	8	8	-	-
II. Bay of Fundy							
15. Multi-purpose (wood)	4	3	6	4	4	-	
16. Multi-purpose (fibreglass)	3	3	5	3	3	-	
17. Herring Seiners	3	5	7	3	6	-	5
18. Longliners	4	5	7	1	5	-	
TOTAL:	69	91	121	50	56	3	5

(1) Radio telephone also includes standard radio or C.B. service (Citizens Band).

2. FISHING LICENCES

Tables 3(a), 3(b), and 3(c) indicate the various licences owned by licensees. Among the forty (40) inshore vessels there are thirty-seven (37) lobster licences, thirty-nine (39) herring licences, and thirty-three (33) mackerel licences. Among the fifteen (15) midshore vessels (Table 3b), there are seven (7) crab licences, four (4) for groundfish, and four (4) for shrimp. In the Bay of Fundy region, for the fourteen (14) vessels studied, there are eight (8) lobster licences, eight (8) for groundfish, seven (7) for scallop, and nine (9) for herring, with gillnet, purse seine, or pump.

3(a) - Fishing Licences/North and Southeast

By locality (Groups 1-10)	Vessels in sample	Various Fishing Licences										
		Lobster	Herring	Mackerel		Ground-fish			Scallop	Tuna	Gaspereau	Salmon	Irish moss
	No.	No.	No.	No.		No.			No.	No.	No.	No. (6)	No.
				(1)	(2)	(3)	(4)	(5)					
Inshore													
1. Stonehaven-Maisonnette	4	4	4	4		3							
2. Caraquet	4	1	4	4		1	1		1				
3. Lamèque-Shippagan	4	4	4	4		4				1			
4. Lamèque-Shippagan	4	4	4	2	2	4				2			
5. Val Comeau-Néguac	4	4	4	4		3		1	2		1		
6. Baie-Ste-Anne	4	4	4	4		4	2		1			2	1
7. Pointe Sapin	4	4	4	4		4	1			1			4
8. Richibuctou	4	4	3	1	1	1		3	3		1		
9. Cap Pelé	4	4	4	4		2	1		3		1		
10. Cape Tormentine	4	4	4	2		3		1	4				
TOTAL:	40	37	39	33	3	29	5	5	14	4	3	2	5

(1) Gillnetting
(2) Purse seining
(3) Gillnetting
(4) Trawling
(5) Otter trawling
(6) Salmon driftnetting

Table 3(b) - Fishing Licences/North and Southeast

Types of vessel (Groups 11-14)	Vessels in sample	Various Fishing Licences			
		Crab	Groundfish	Shrimp	Pelagic trawl (1)
		No.	No.	No.	No.
Midshore					
11. Crabbers	3	3	3		
12. Scottish Seiners	4	-	4		
13. Crabbers and Scottish Seiners	4	4	4		
14. Shrimpers	4	-	4	4	1
TOTAL:	15	7	15	4	1

(1) Pelagic trawl for groundfishing

Table 3(c) - Fishing Licences/Bay of Fundy

Types of vessel (Groups 15-18)	Vessels in sample	Various Fishing Licences					
		Lobster	Groundfish	Scallop	Herring		
	No.	No.	No.	No.	No. (1)	No. (2)	No. (3)
15. Multi-purpose (wood)	4	4	2	4	1		
16. Multi-purpose (fibreglass)	3	3	2	3	3		1
17. Herring Seiners	3	-	-	-	-	3	
18. Longliners	4	1	4	-	1		
TOTAL:	14	8	8	7	5	3	1

(1) Gillnetting
(2) Purse seining
(3) Pumping herring

3. OPERATING RESULTS

The inshore vessels landed a total of 3,816,386 pounds of fish, representing $1,285,869.47. Of this total value lobster accounted for 58.5%, and herring for 17.4% (Table 4a).

The midshore vessels landed a total of 11,461,198 pounds, with a corresponding total landed value of $4,861,014.25 (Table 4b). Snow crab accounted for 59.7% of this value, cod 20%, and shrimp 17.4%.

The fourteen (14) vessels in the Bay of Fundy landed 12,534,915 pounds, representing a total landed value of $1,047,303.81. Herring accounted for 56.4% of the total landed value, while cod made up 15.3%, and lobster 10.4% (Table 4c).

The Tables which follow, i.e., Tables 5a to 9c, provide a more détailed analysis of the data just presented. For each vessel group, these tables include the average quantity landed, the average landed value, average prices received per species, as well as the percentage breakdown of the landings.

Table 4(a) - Total landings, total landed value, and average price per species - North and Southeast - 1983.

Species	Total landings	Percentage of total	Total landed value	Percentage of total	Average price received
	lb	%	$	%	¢
			Inshore		
Lobster	392,321	10.3	752,621.17	58.5	191.84
Herring	2,403,043	63.0	223,474.64	17.4	9.30
Mackerel	534,952	14.0	86,449.11	6.7	16.16
Cod	52,848	1.4	10,929.38	0.8	20.68
Plaice	29,793	0.8	3,220.57	0.3	10.81
Hake	219,125	5.7	26,357.48	2.1	12.03
Gaspereau	135,458	3.6	9,565.75	0.7	7.06
Shad	1,257	0	70.66	0	5.62
Salmon	1,372	0	3,950.25	0.3	287.92
Tuna	7,145	0.2	5,716.00	0.4	80.01
Scallop	31,371	0.8	162,744.36	12.7	518.77
Cancer Crab	7,701	0.2	770.10	10.0	10.00
TOTALS	3,816,386	100.0	1,285,869.47	100.0	33.69

0 less than one half of 0.1

Table 4(b) - Total landings, total landed value, and average price per species - North and Southeast - 1983.

Species	Total landings	Percentage of total	Total landed value	Percentage of total	Average price received
	lb	%	$	%	¢
			Midshore		
Snow crab	3,980,821	34.7	2,901,083.79	59.7	72.88
Cod	5,077,429	44.3	983,447.69	20.2	19.37
Hake	116,117	1.0	7,850.77	0.2	6.76
Plaice	550,764	4.8	83,327.03	1.7	15.13
Haddock	458	0	79.08	0	17.27
Herring	200	0	20.00	0	10.00
Halibut	1,059	0	1,800.00	0	169.97
Turbot	51,626	0.5	7,369.43	0.2	14.27
Catfish	5	0	0.50	0	10.00
Redfish	240,031	2.1	29,994.60	0.6	12.50
Shrimp	1,434,188	12.5	845,956.36	17.4	58.99
Ungraded	8,500	0.1	85.00	0	1.00
TOTALS	11,461,198	100.0	4,861,014.25	100.0	42.41

0 less than one half of 0.1

* Ungraded means all species graded by purchasers as being of inferior quality

Table 4(b) - Total landings, total landed value, and average price per species - Worth and Southeast - 1983.

Species	Total landings	Percentage of total	Total landed value	Percentage of total	Average price received
	lb	%	$	%	¢
Lobster	37,634	0.30	108,471.73	10.36	288.23
Herring	11,733,447	93.61	590,684.43	56.40	5.03
Scallop	15,502	0.12	124,713.37	11.91	804.50
Cod	536,182	4.28	160,440.93	15.32	29.92
Plaice	46,311	0.37	17,828.07	1.70	38.50
Hake	15,769	0.13	2,386.98	0.23	15.14
Haddock	55,766	0.44	17,528.55	1.67	31.43
Halibut	4,879	0.04	10,215.76	0.98	209.38
Mackerel	34,840	0.28	7,532.25	0.72	21.62
Pollock	16,574	0.13	3,147.79	0.30	18.99
Catfish	8,412	0.07	841.20	0.08	10.00
Redfish					
Shark					
Herring scale	29,279	0.23	3,410.75	0.32	11.65
Ungraded	320	0	102.00	0.01	31.88
TOTALS	12,534,915	100.0	1,047,303.81	100.0	8.36

0 less than one half of 0.1

* Ungraded means all species graded by purchasers as being of inferior quality

Table 5(a) - Average landings per species - North and Southeast

Inshore vessels

Species of fish	Average by locality				
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan	4. Lamèque-Shippagan	5. Val Comeau Méguac
	lb	lb	lb	lb	lb
Lobster	6,184	492	6,245	4,510	9,994
Herring	69,654	175,600	37,222	152,579	23,842
Mackerel	9,390	78,445	5,982	19,114	1,967
Cod	2,546	1,273	3,023	3,071	276
Plaice	1,075		757	483	0
Hake	1,403		3,635	42	550
Shad	292				
Salmon					75
Gaspereau	91			383	
Scallop					1,171
Tuna			1,786		
Cancer Crab					
TOTALS	90,635	255,810	58,650	180,182	37,875

Table 5(a) - Average landings per species - North and Southeast

Inshore vessels

Species of fish	Average by locality				
	6. Baie-Ste-Anne	7. Pointe Sepin	8. Richibuctou	9. Cap-Pelé	10. Cape Tormentine
Lobster	11,524	9,181	7,686	19,185	23,080
Herring	81,151	37,691	250	22,771	
Mackerel	11,228	2,388	250	4,974	
Cod	1,550	1,298	175		
Plaice	2,900	2,234			
Hake		5,956	29,476		13,720
Shad	22				
Salmon	262	6			
Gaspereau			33,391		
Scallop	394		1,820	1,600	2,859
Tuna					
Cancer Crab			1,397	528	
TOTALS	109,031	58,754	74,445	49,058	39,659

Table 5(b) - Average landings per species - North and Southeast

Midshore vessels

Species of fish	Average			
	11. Crabbers	12 Scottish seiners	13. Crabbers and S. seiners	14. Shrimpers
	lb	lb	lb	lb
Cod	1,606	954,058	86,774	227,320
Haddock		13		101
Hake		14,728	14,302	
Halibut				265
Turbot				12,907
Plaice	1,951	117,591	5,147	13,490
Catfish				1
Redfish				60,008
Shrimp				358,547
Snow crab	439,924		665,262	
Herring				50
*Ungraded		1,125		1,000
TOTALS	443,481	1,087,515	771,485	673,689

*Ungraded means all species graded by purchasers as being of inferior quality.

Table 5(c) - Average landings per species - Bay of Fundy

Species of fish	Average according to type of vessel			
	15. Multi-purpose (wood)	16. Multi-purpose (fibreglass)	17. Herring seiners	18. Longliners
	lb	lb	lb	lb
Lobster	4,240	4,978		
Herring			3,911,149	
Haddock		15,717		2,153
Cod	1,970	49,196		95,179
Plaice		15,260		133
Hake		1,388		2,901
Pollock	640	4,448		168
Catfish		2,804		
Scallop	3,106	2,940		
Halibut	3	109		1,135
Mackerel				8,710
Herring Scale			9,760	
*Ungraded		107		
TOTALS	9,959	96,947	3,920,909	110,379

*Ungraded means all species graded by purchasers as being of inferior quality.

Table 6(a) - Average landed values per species

North and Southeast - Inshore vessels

Species of fish	Average by locality				
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan	4. Lamèque-Shippagan	5. Val Comeau Néguac
	$	$	$	$	$
Lobster	13,410	1,119	13,464	9,282	22,286
Herring	6,160	17,834	3,729	14,894	2,271
Mackerel	1,146	13,396	932	3,441	259
Cod	633	275	655	623	55
Plaice	152		103	71	
Hake	172		427	4	83
Shad	9				
Salmon					187
Gaspereau	7			34	
Scallop					7,004
Tuna			1,429		
Cancer Crab					
TOTALS	21,689	32,624	20,739	28,349	32,145

Table 6(a) - Average landed value per species
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	6. Baie-Ste-Anne	7. Pointe Sapin	8. Richibuctou	9. Cap-Pelé	10. Cape Tormentine
	$	$	$	$	$
Lobster	23,114	17,178	12,887	34,588	40,827
Herring	5,880	2,710	25	2,366	
Mackerel	1,326	321	25	767	
Cod	251	208	31		
Plaice	290	189			
Hake		595	3,674		1,635
Shad	9				
Salmon	785	15			
Gaspereau			2,350		
Scallop	2,407		9,186	8,000	14,089
Tuna					
Cancer Crab			140	53	
TOTALS	34,062	21,216	28,318	45,774	56,551

Table 6(b) - Average landed values per species
North and Southeast - Midshore vessels

Species of fish	Average			
	11. Crabbers	12 Scottish seiners	13. Crabbers and S. seiners	14. Shrimpers
	$	$	$	$
Cod	321	188,521	13,728	43,372
Haddock		4		16
Hake		1,186	777	
Halibut				450
Turbot				1,842
Plaice	293	17,779	772	2,061
Catfish				
Redfish				7,499
Shrimp				211,489
Snow crab	314,337		489,518	
Herring				5
*Ungraded		11		10
TOTALS	314,951	207,501	504,795	266,744

*Ungraded means all species graded by purchasers as being of inferior quality.

Table 6(c) - Average landed values per species
Bay of Fundy

Species of fish	Average according to type of vessel			
	15. Multi-purpose (wood)	16. Multi-purpose (fibreglass)	17. Herring seiners	18. Longliners
	$	$	$	$
Lobster	14,118	17,333		
Herring			196,895	
Haddock		4,497		1,009
Cod	656	11,075		31,148
Plaice		5,889		40
Hake		168		471
Pollock	186	750		39
Catfish		280		
Scallop	17,885	17,724		
Halibut	6	187		2,408
Mackerel				1,883
Herring Scale			1,137	
*Ungraded		34		
TOTALS	32,851	57,937	198,032	36,998

*Ungraded means all species graded by purchasers as being of inferior quality.

Table 7(a) - Average prices received per species (in cents per pound)
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan	4. Lamèque-Shippagan	5. Val Comeau Néguac
Lobster	216.85	277.44	215.60	205.81	222.99
Herring	8.84	10.16	10.02	9.76	9.53
Mackerel	12.20	17.08	15.58	18.00	13.17
Cod	24.86	21.60	21.67	20.29	19.93
Plaice	14.14		13.61	14.70	
Hake	12.26		11.75	9.52	15.09
Shad	3.08				
Salmon					249.33
Gaspereau	7.69			8.88	
Scallop					598.12
Tuna			80.01		
Cancer Crab					
All species	23.93	12.75	35.36	15.73	84.87

Table 7(a) - Average prices received per species (in cents per pound)
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	6. Baie-Ste-Anne	7. Pointe Sapin	8. Richibuctou	9. Cap-Pelé	10. Cape Tormentine
Lobster	200.57	187.10	167.67	180.29	176.89
Herring	7.25	7.19	10.10	10.39	
Mackerel	11.81	13.44	10.10	15.42	
Cod	16.19	16.02	17.71		
Plaice	10.00	8.46			
Hake		10.00	12.46		11.92
Shad	40.91				
Salmon	299.62	250.00			
Gaspereau			7.04		
Scallop	610.91		504.73	500.00	492.79
Tuna					
Cancer Crab			10.02	10.04	
All species	31.24	36.11	38.04	93.31	142.59

Table 7(b) - Average prices received per species (in cents per pound)
North and Southeast - Midshore vessels

Species of fish	Average			
	11. Crabbers	12 Scottish seiners	13. Crabbers and S. seiners	14. Shrimpers
Cod	19.99	19.76	15.82	19.08
Haddock		30.77		15.84
Hake		8.05	5.43	
Halibut				169.81
Turbot				14.27
Plaice	15.02	15.12	15.00	15.28
Catfish				9.60
Redfish				12.50
Shrimp				58.99
Snow crab	71.45		73.58	
Herring				10.00
*Ungraded		0.98		1.00
All species	71.02	19.08	65.43	39.59

*Ungraded means all species graded by purchasers as being of inferior quality.

Table 7(c) - Average prices received per species (in cents per pound)
Bay of Fundy

Species of fish	Average according to type of vessel			
	15. Multi-purpose (wood)	16. Multi-purpose (fibreglass)	17. Herring seiners	18. Longliners
	$	$	$	$
Lobster	332.97	348.19		
Herring			5.03	
Haddock		28.61		46.86
Cod	33.30	22.51		32.73
Plaice		38.59		30.08
Hake		12.10		16.24
Pollock	29.06	16.86		23.21
Catfish		9.99		
Scallop	575.82	602.86		
Halibut	200.00	171.56		212.16
Mackerel				21.62
Herring Scale			11.65	
*Ungraded		31.78		
All species	329.86	59.76	5.05	33.52

*Ungraded means all species graded by purchasers as being of inferior quality.

Table 8(a) - Percentage distribution of total landings by species
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan	4. Lamèque-Shippagan	5. Val Comeau Néguac
	%	%	%	%	%
Lobster	6.8	0.2	10.7	2.5	26.4
Herring	76.9	68.6	63.5	84.7	62.9
Mackerel	10.4	30.7	10.2	10.6	5.2
Cod	2.8	0.5	5.1	1.7	0.7
Plaice	1.2		1.3	0.3	
Hake	1.5		6.2	0	1.5
Shad	0.3				
Salmon					0.2
Gaspereau	0.1			0.2	
Scallop					3.1
Tuna			3.0		
Cancer Crab					
Sturgeon					
All species	100.0	100.0	100.0	100.0	100.0

0 less than one half of 0.1

Table 8(a) - Percentage distribution of total landings by species
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	6. Baie-Ste-Anne	7. Pointe Sapin	8. Richibuctou	9. Cap-Pelé	10. Cape Tormentine
	%	%	%	%	%
Lobster	10.6	15.6	10.3	39.1	58.2
Herring	74.4	64.2	0.3	46.4	
Mackerel	10.3	4.1	0.3	10.1	
Cod	1.4	2.2	0.2		
Plaice	2.7	3.8			
Hake		10.1	39.6		34.6
Shad	0				
Salmon	0.2	0			
Gaspereau			44.9		
Squid					
Scallop	0.4		2.5	3.3	7.2
Tuna					
Cancer Crab			1.9	1.1	
Sturgeon					
TOTALS	100.0	100.0	100.0	100.0	100.0

0 less than one half of 0.1

Table 8(b) - Percentage distribution of total landings by species
North and Southeast - Midshore vessels

Species of fish	Average			
	11. Crabbers	12 Scottish seiners	13. Crabbers and S. seiners	14. Shrimpers
	%	%	%	%
Cod	0.4	87.7	11.2	33.7
Haddock		0		0
Hake		1.4	1.9	
Halibut				0.1
Turbot				1.9
Plaice	0.4	10.8	0.7	2.0
Catfish				0
Redfish				8.9
Shrimp				53.2
Snow crab	99.2		86.2	
Herring				0
*Ungraded		0.1		0.2
TOTALS	100.0	100.0	100.0	100.0

0 less than one half of 0.1

* Ungraded means all species graded by purchasers as being of inferior quality.

Table 8(c) - Percentage distribution of total landings by species
Bay of Fundy

Species of fish	Average according to type of vessel			
	15. Multi-purpose (wood)	16. Multi-purpose (fibreglass)	17. Herring seiners	18. Longliners
	%	%	%	
Lobster	42.6	5.1		
Herring			99.7	
Haddock		16.2		2.0
Cod	19.8	50.8		86.2
Plaice		15.8		0.1
Hake		1.4		2.6
Pollock	6.4	4.6		0.2
Catfish		2.9		
Scallop	31.2	3.0		
Halibut	0	0.1		1.0
Mackerel				7.9
Herring Scale			0.3	
*Ungraded		0.1		
TOTALS	100.0	100.0	100.0	100.0

0 less than one half of 0.1

* Ungraded means all species graded by purchasers as being of inferior quality.

Table 9(a) - Percentage distribution of total landed value by species
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan	4. Lamèque-Shippagan	5. Val Comeau Méguac
Lobster	61.8	3.4	64.9	32.8	69.3
Herring	28.4	54.7	18.0	52.5	7.0
Mackerel	5.3	41.1	4.5	12.1	0.8
Cod	2.9	0.8	3.2	2.2	0.2
Plaice	0.7		0.5	0.3	
Hake	0.8		2.0	0	0.3
Shad	0.1				
Salmon					0.6
Gaspereau	0			0.1	
Squid					
Scallop					21.8
Tuna			6.9		
Cancer Crab					
Sturgeon					
TOTALS	100.0	100.0	100.0	100.0	100.0

0 less than one half of 0.1

Table 9(a) - Percentage distribution of total landed value by species
North and Southeast - Inshore vessels

Species of fish	Average by locality				
	6. Baie-Ste-Anne	7. Pointe Sapin	8. Richibuctou	9. Cap-Pelé	10. Cape Tormentine
	%	%	%	%	%
Lobster	67.8	81.0	45.5	75.5	72.2
Herring	17.3	12.7	0.1	5.2	
Mackerel	3.9	1.5	0.1	1.7	
Cod	0.7	1.0	0.1		
Plaice	0.9	0.9			
Hake		2.8	13.0		2.9
Shad	0				
Salmon	2.3	0.1			
Gaspereau			8.3		
Squid					
Scallop	7.1		32.4	17.5	24.9
Tuna					
Cancer Crab			0.5	0.1	
Sturgeon					
TOTALS	100.0	100.0	100.0	100.0	100.0

0 less than one half of 0.1

Table 9(b) - Percentage distribution of total landed value by species
North and Southeast - Midshore vessels

Species of fish	Average			
	11. Crabbers	12 Scottish seiners	13. Crabbers and S. seiners	14. Shrimpers
	%	%	%	%
Cod	0.1	90.8	2.7	16.3
Haddock		0		0
Hake		0.6	0.2	
Halibut				0.2
Turbot				0.7
Plaice	0.1	8.6	0.1	0.7
Catfish				0
Redfish				2.8
Herring				
Squid				
Skate				
Shrimp				79.3
Snow crab	99.8		97.0	
Herring				0
*Ungraded		0		0
TOTALS	100.0	100.0	100.0	100.0

0 less than one half of 0.1

* Ungraded means all species graded by purchasers as being of inferior quality.

Table 9(c) - Percentage distribution of total landed value by species
Bay of Fundy

Species of fish	Average according to type of vessel			
	15. Multi-purpose (wood)	16. Multi-purpose (fibreglass)	17. Herring seiners	18. Longliners
	%	%	%	
Lobster	43.0	29.9		10.4
Herring			99.4	56.4
Haddock		7.7		1.7
Cod	2.0	19.1		15.3
Plaice		10.2		1.7
Hake		0.3		0.2
Pollock	0.6	1.3		0.3
Catfish		0.5		0.1
Scallop	54.4	30.6		11.9
Halibut	0	0.3		1.0
Mackerel				0.7
Herring Scale			0.6	0.3
*Ungraded		0.1		0
TOTALS	100.0	100.0	100.0	100.0

0 less than one half of 0.1

* Ungraded means all species graded by purchasers as being of inferior quality.

4. Summary of operations

The summary of operations for 1983 is shown as the average for each group of vessels (Table 10(a) to Table 10(c)), and also as percentage distribution of revenue (Tables 11(a) to 11(c)).

Several inshore vessels were not as successful as during last year, mainly because of the following reasons. The average price received for herring was 2.34¢ less per pound than last year (see Table 4(a)), which was especially disadvantageous for herring vessels. The average price for lobster was also about 10.34¢ less per pound than it was last year. Fuel expenses were much higher, not only because of inflation but also because the New Brunswick Department of Fisheries did not pay a discount of 5¢ per litre as it had the year before. On the other hand, some inshore vessels were more successful than during last year, mainly because of the abundance of lobster in the Cap Pelé region, and especially in the Cape Tormentine region.

As for the crabbers, i.e., wooden vessels measuring an average of 64 feet long, the average net income was somewhat lower than last year's. Even though fishing efforts and landings were greatly reduced, the average landed value remained

approximately the same as in 1982. This is due to the considerable increase of 30.13¢ a pound in the average price received for snow crab. i.e., from 41.32¢ in 1982 to 71.45¢ in 1983 (Table 7b). On the whole, these vessels were very successful.

Despite a slight increase of 1.13¢ per pound in the average price received for groundfish, the Scottish Seiners were not as successful as they were last year. Although the number of fishing trips was almost identical, the groundfish landings declined by an average of 251,000 pounds per vessel in comparison with 1982.

The steel-hull crabbers and Scottish seiners for the most part had a very good year. They were able to pay the Fisheries Development Board of New Brunswick an average of $87,951, and an average of $33,399 on the principal debt. Because of the increased average price for snow crab, the landed value rose $109,000 from 1982 to 1983, and reached an average value of $504,795.

Over the last few years, the financial results of the shrimpers have become more and more alarming. In 1983, they had a net loss of an average of $37,490. This was mainly because of the high fuel costs which represent 23.6% of the revenue. Since certain vessels received major repairs, the interest incurred on the loans was also

an important expense, as it represents an average of 14.6% of the total revenue. It is evident, therefore, that these vessels will eventually need some kind of assistance if they are to continue their operations.

The study of the Bay of Fundy vessels has just begun. The reader should therefore be informed that the data must be considered as preliminary results rather than absolute values. Eventually, it will be possible to obtain more precise data on the different types of vessels.

Table 10(a) - Average revenue, expenditure, and net income
North and Southeast - Inshore vessels

ITEMS	Average		
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan
Dimensions (feet)	35	48	35
Revenue	$	$	$
Sale of fish	21,689	32,624	20,739
Other revenue		1,258	2,411
Total revenue	21,689	33,882	23,150
Expenditure			
Maintenance and repair			
Hull	573	910	430
Motor	324	775	1,107
Winch	64	62	214
Fishing gear	1,385	706	643
Electronic devices	143	47	86
Subtotal	2,489	2,500	2,480
Other operating expenses			
Fuel	2,112	2,219	2,128
Bait	928	41	1,136
Ice	-	169	-
Provisions	362	1,371	575
Wages	84	79	46
Warfage	16	258	108
Miscellaneous	2,386	2,272	2,231
Subtotal	5,888	6,409	6,224
Fixed expenses			
Marine insurance	260	742	226
Worker's compensation Board	-		
Rent	-		
Interest	988	1,857	319
Other	223	195	215
Subtotal	1,471	2,794	760
Total cash expenditure	9,848	11,703	9,464
Net cash remuneration labour and capital	11,841	22,179	13,686
1. Net crew income			
Net crew share (1)	9,152	20,973	10,654
Commission	-		
Subtotal	9,152	20,973	10,654
2. Net boat share	2,689	1,206	3,032
Less depreciation (2)	1,303	2,662	788
Net vessel income	1,386	-1,456	2,244

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 10(a) - Average revenue, expenditure, and net income
North and Southeast - Inshore vessels

ITEMS	Average		
	4. Lamèque-Shippagan	5. Val Comeau-Néguac	6. Baie-Ste-Anne
Dimensions (feet)	45	43	43
Revenue	$	$	$
Sale of fish	28,349	32,145	34,062
Other revenue	4,975		
Total revenue	33,324	32,145	34,062
Expenditure			
Maintenance and repair			
Hull	1,092	820	1,173
Motor	1,612	760	1,517
Winch	171	168	358
Fishing gear	1,002	968	743
Electronic devices	200	60	116
Subtotal	4,077	2,776	3,907
Other operating expenses			
Fuel	2,158	3,539	2,544
Bait	991	773	1,128
Ice	12	5	7
Provisions	681	1,056	844
Wages	127	69	61
Warfage	120	86	185
Miscellaneous	2,356	2,464	2,515
Subtotal	6,445	7,992	7,284
Fixed expenses			
Marine insurance	550	109	465
Worker's compensation Board			
Rent			
Interest	1,874	268	826
Other	228	208	257
Subtotal	2,652	585	1,548
Total cash expenditure	13,174	11,353	12,739
Net cash remuneration labour and capital	20,150	20,792	21,323
1. Net crew income			
Net crew share (1)	14,372	10,627	15,079
Commission			
Subtotal	14,372	10,627	15,079
2. Net boat share	5,778	10,165	6,244
Less depreciation (2)	2,291	795	1,895
Net vessel income	3,487	9,370	4,349

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 10(a) - Average revenue, expenditure, and net income
North and Southeast - Inshore vessels

ITEMS	Average			
	7. Pointe-Sapin	8. Richibuctou	9. Cap-Pelé	10. Cape Tormentine
Dimensions (feet)	39	44	42	44
Revenue	$	$	$	$
Sale of fish	21,216	28,318	45,774	56,551
Other revenue	1,725	1,940	-	-
Total revenue	22,941	30,258	45,774	56,551
Expenditure				
Maintenance and repair				
Hull	755	949	883	1,053
Motor	362	801	866	1,582
Winch	171	511	170	381
Fishing gear	1,187	1,284	2,439	1,639
Electronic devices	55	65	18	73
Subtotal	2,530	3,610	4,376	4,728
Other operating expenses				
Fuel	2,363	3,110	4,459	3,401
Bait	1,312	949	1,617	2,933
Ice	8	-	-	-
Provisions	544	981	456	819
Wages	107	69	95	38
Warfage	150	109	151	101
Miscellaneous	3,070	3,257	2,724	2,878
Subtotal	7,554	8,475	9,502	10,170
Fixed expenses				
Marine insurance	135	226	261	245
Worker's compensation Board				
Rent				
Interest	435	291	626	462
Other	215	240	285	204
Subtotal	785	757	1,172	911
Total cash expenditure	10,869	12,842	15,050	15,809
Net cash remuneration labour and capital	12,072	17,416	30,724	40,742
1. Net crew income				
Net crew share (1)	11,874	12,031	12,612	16,409
Commission				
Subtotal	11,874	12,031	12,612	16,409
2. Net boat share	198	5,385	18,112	24,333
Less depreciation (2)	879	1,164	1,505	1,284
Net vessel income	- 681	4,221	16,607	23,049

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 10(a) - Average revenue, expenditure, and net income
North and Southeast - Inshore vessels

ITEMS	Average			
	11. Crabbers	12. Scottish seiners	13. Crabbers S. Seiners	14. Shrimpers
Dimensions (feet)	64	64	65	85
Revenue	$	$	$	$
Sale of fish	314,951	207,500	504,795	266,744
Other revenue	52	9,240	49,398	158
Total revenue	315,003	216,740	554,193	266,902
Expenditure				
Maintenance and repair				
Hull	9,884	6,630	6,170	8,296
Motor	12,735	2,794	1,703	5,685
Winch	3,479	5,327	880	7,769
Fishing gear	12,627	5,539	14,081	4,537
Electronic devices	1,279	2,266	343	1,095
Subtotal	40,004	22,556	23,177	27,382
Other operating expenses				
Fuel	16,069	16,247	20,270	62,990
Bait	13,551		17,964	
Ice	1,263	3,358	1,603	6,412
Provisions	3,079	4,115	3,934	6,718
Wages	629	791	496	809
Warfage	208	293	832	167
Miscellaneous	5,148	4,891	5,857	5,509
Subtotal	39,947	29,695	50,956	82,605
Fixed expenses				
Marine insurance	5,925	6,588	10,475	13,708
Worker's compensation Board	731	728	744	699
Rent		581	311	
Interest	14,304	8,636	38,396	39,061
Other	1,044	1,002	977	1,201
Subtotal	22,004	17,535	50,903	54,669
Total cash expenditure	101,955	69,786	125,036	164,656
Net cash remuneration labour and capital	213,048	146,954	429,157	102,246
1. Net crew income				
Net crew share	137,697	102,920	272,417	90,922
Commission	8,729	-	-	4,667
Subtotal	146,426	102,920	272,417	95,589
2. Net boat share	66,622	44,034	156,740	6,657
Less depreciation (1)	17,168	15,752	43,030	44,147
Net vessel income	49,454	28,282	113,710	-37,490

(1) Includes helper's wages and average wages calculated for captains.

Table 10(a) - Average revenue, expenditure, and net income
Bay of Fundy

ITEMS	Average			
	15. Multi-purpose (wood)	16. Multi purpose (fibreglass)	17. Herring seiners	18. Long-liners
Dimensions (feet)	41	42	60	41
Revenue	$	$	$	$
Sale of fish	32,851	57,937	198,032	36,998
Other revenue	-	620		-
Total revenue	32,851	58,557	198,032	36,998
Expenditure				
Maintenance and repair				
Hull	714	687	7,055	521
Motor	1,310	1,989	3,272	456
Winch	92	854	295	37
Fishing gear	2,573	2,693	3,559	2,327
Electronic devices	200	669	3,183	215
Subtotal	4,889	6,892	17,364	3,556
Other operating expenses				
Fuel	3,849	7,346	10,015	3,896
Bait	868	1,212		4,435
Ice	16	16	532	-
Provisions	699	482	4,974	484
Wages	258	292	732	8
Warfage	-		2	
Miscellaneous	1,428	3,606	5,887	2,414
			9,060	
Subtotal	7,118	12,954	31,202	11,237
Fixed expenses				
Marine insurance	673	1,344	7,678	613
Worker's compensation Board			3,387	
Rent				
Interest	1,778	2,967	7,311	1,411
Other	172	218	1,432	106
Subtotal	2,623	4,529	19,808	2,130
Total cash expenditure	14,630	24,375	68,374	16,923
Net cash remuneration labour and capital	18,221	34,182	129,658	20,075
1. Net crew income				
Net crew share (1)	13,345	31,216	92,274	21,018
Commission				
Subtotal	13,345	31,216	92,274	21,018
2. Net boat share	4,876	2,966	37,384	- 943
Less depreciation (2)	2,131	4,168	7,457	1,728
Net vessel income	2,745	- 1,202	29,927	- 2,671

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 11(a) - Percentage distribution of total income
North and Southeast - Inshore vessels

ITEMS	Average		
	1. Stonehaven-Maisonnette	2. Caraquet	3. Lamèque-Shippagan
Dimensions (feet)	35	48	35
Revenue			
Sale of fish	100.0	96.3	89.6
Other revenue		3.7	10.4
Total revenue	100.0	100.0	100.0
Expenditure			
Maintenance and repair			
Hull	2.6	2.7	1.8
Motor	1.5	2.3	4.8
Winch	0.3	0.2	0.9
Fishing gear	6.4	2.1	2.8
Electronic devices	0.7	0.1	0.4
Subtotal	11.5	7.4	10.7
Other operating expenses			
Fuel	9.7	6.6	9.2
Bait	4.3	0.1	4.9
Ice		0.5	
Provisions	1.7	4.1	2.5
Wages	0.4	0.2	0.2
Warfage	0.1	0.7	0.5
Miscellaneous	11.0	6.7	9.6
Subtotal	27.2	18.9	26.9
Fixed expenses			
Marine insurance	1.2	2.2	1.0
Worker's Compensation Board			
Rent			
Interest	4.5	5.4	1.4
Other	1.0	0.6	0.9
Subtotal	6.7	8.2	3.3
Total cash expenditure	45.4	34.5	40.9
Net cash remuneration labour and capital	54.6	65.5	59.1
1. Net crew income			
Net crew share (1)	42.2	61.9	46.0
Commission			
Subtotal	42.2	61.9	46.0
2. Net boat share	12.4	3.6	13.1
Less depreciation (2)	6.0	7.9	3.4
Net vessel income	6.4	- 4.3	9.7

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 11(a) - Percentage distribution of total revenue
North and Southeast - Inshore vessels

ITEMS	Average		
	4. Lamèque-Shippagan	5. Val Comeau-Néguac	6. Baie-Ste-Anne
Dimensions (feet)	45	43	43
Revenue			
Sale of fish	85.1	100.0	100.0
Other revenue	14.9		
Total revenue	100.0	100.0	100.0
Expenditure			
Maintenance and repair			
Hull	3.3	2.5	3.5
Motor	4.8	2.4	4.4
Winch	0.5	0.5	1.1
Fishing gear	3.0	3.0	2.2
Electronic devices	0.6	0.2	0.3
Subtotal	12.2	8.6	11.5
Other operating expenses			
Fuel	6.5	11.0	7.5
Bait	3.0	2.4	3.3
Ice	0.1		
Provisions	2.0	3.3	2.5
Wages	0.4	0.2	0.2
Warfage	0.3	0.3	0.5
Miscellaneous	7.0	7.7	7.4
Subtotal	19.3	24.9	21.4
Fixed expenses			
Marine insurance	1.7	0.3	1.4
Worker's Compensation Board			
Rent			
Interest	5.6	0.8	2.4
Other	0.7	0.7	0.7
Subtotal	8.0	1.8	4.5
Total cash expenditure	39.5	35.3	37.4
Net cash remuneration labour and capital	60.5	64.7	62.6
1. Net crew income			
Net crew share (1)	43.1	33.1	44.3
Commission			
Subtotal	43.1	33.1	44.3
2. Net boat share	17.1	31.6	18.3
Less depreciation (2)	6.9	2.5	5.6
Net vessel income	10.5	29.1	12.7

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 11(a) - Percentage distribution of total revenue
North and Southeast - Inshore vessels

ITEMS	Average			
	7. Pointe-Sapin	8. Richi-buctou	9. Cap-Pelé	10. Cape Tormentine
Dimensions (feet)	39	44	42	44
Revenue				
Sale of fish	92.5	93.6	100.0	100.0
Other revenue	7.5	6.4		
Total revenue	100.0	100.0	100.0	100.0
Expenditure				
Maintenance and repair				
Hull	3.3	3.1	1.9	1.9
Motor	1.6	2.7	1.9	2.8
Winch	0.7	1.7	0.4	0.7
Fishing gear	5.2	4.2	5.3	2.9
Electronic devices	0.2	0.2	0.1	0.1
Subtotal	11.0	11.9	9.6	8.4
Other operating expenses				
Fuel	10.3	10.3	9.7	6.0
Bait	5.7	3.1	3.5	5.2
Ice	0.1			
Provisions	2.3	3.2	1.0	1.4
Wages	0.5	0.2	0.2	0.1
Warfage	0.6	0.4	0.3	0.2
Miscellaneous	13.4	10.8	6.0	5.1
Subtotal	32.9	28.0	20.7	18.0
Fixed expenses				
Marine insurance	0.6	0.7	0.6	0.4
Worker's Compensation Board				
Rent				
Interest	1.9	1.0	1.4	0.8
Other	0.9	0.8	0.6	0.4
Subtotal	3.4	2.5	2.6	1.6
Total cash expenditure	47.3	42.4	32.9	28.0
Net cash remuneration labour and capital	52.7	57.6	67.1	72.0
1. Net crew income				
Net crew share (1)	51.8	39.8	27.6	29.0
Commission				
Subtotal	51.8	39.8	27.6	29.0
2. Net boat share	0.9	17.8	39.5	43.0
Less depreciation (2)	3.8	3.9	3.3	2.3
Net vessel income	- 2.9	13.9	36.2	40.7

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

Table 11(b) - Percentage distribution of total revenue
North and Southeast - Midshore vessels

ITEMS	Average			
	11. Crabbers	12. Scottish seiners	13. Crabbers S. Seiners	14. Shrimpers
Dimensions (feet)	64	64	65	85
Revenue	$	$	$	$
Sale of fish	100.0	95.7	91.1	99.9
Other revenue	-	4.3	8.9	0.1
Total revenue	100.0	100.0	100.0	100.0
Expenditure				
Maintenance and repair				
Hull	3.2	3.0	1.1	3.1
Motor	4.0	1.3	0.3	2.2
Winch	1.1	2.4	0.2	2.9
Fishing gear	4.0	2.6	2.5	1.7
Electronic devices	0.4	1.1	0.1	0.4
Subtotal	12.7	10.4	4.2	10.3
Other operating expenses				
Fuel	5.1	7.5	3.6	23.6
Bait	4.3		3.2	
Ice	0.4	1.6	0.3	2.4
Provisions	1.0	1.9	0.7	2.5
Wages	0.2	0.4	0.1	0.3
Warfage	0.1	0.1	0.2	0.1
Miscellaneous	1.6	2.2	1.1	2.1
Subtotal	12.7	13.7	9.2	31.0
Fixed expenses				
Marine insurance	1.9	3.0	1.9	5.1
Worker's Compensation Board	0.2	0.3	0.1	0.2
Rent	-	0.3	0.1	-
Interest	4.6	4.0	6.9	14.6
Other	0.3	0.5	0.2	0.5
Subtotal	7.0	8.1	9.2	20.4
Total cash expenditure	32.4	32.2	22.6	61.7
Net cash remuneration labour and capital	67.6	67.8	77.4	38.3
1. Net crew income				
Net crew share	43.7	47.5	49.2	34.1
Commission	2.8			1.7
Subtotal	46.5	47.5	49.2	35.8
2. Net boat share	21.1	20.3	28.2	2.5
Less depreciation (1)	5.4	7.3	7.7	16.5
Net vessel income	15.7	13.0	20.5	-14.0

(1) Depreciation calculated at 7½% annually.

Table 11(c) - Percentage distribution of total revenue
Bay of Fundy

ITEMS	Average			
	15. Multi-purpose (wood)	16. Multi purpose (fibreglass)	17. Herring seiners	18. Long-liners
Dimensions (feet)	41	42	60	41
Revenue				
Sale of fish	100.0	98.9	100.0	100.0
Other revenue		1.1		
Total revenue	100.0	100.0	100.0	100.0
Expenditure				
Maintenance and repair				
Hull	2.2	1.2	3.5	1.4
Motor	4.0	3.4	1.7	1.2
Winch	0.3	1.5	0.2	0.1
Fishing gear	7.8	4.6	1.8	6.3
Electronic devices	0.6	1.1	1.6	0.6
Subtotal	14.9	11.8	8.8	9.6
Other operating expenses				
Fuel	11.7	12.5	5.0	10.5
Bait	2.6	2.1		12.0
Ice	0.1	0.1	0.3	
Provisions	2.1	0.8	2.5	1.3
Wages	0.8	0.5	0.4	0.1
Warfage				
Miscellaneous	4.4	6.1	3.0	6.5
			4.6	
Subtotal	21.7	22.1	15.8	30.4
Fixed expenses				
Marine insurance	2.1	2.3	3.9	1.7
Worker's Compensation Board			1.7	
Rent				
Interest	5.4	5.0	3.7	3.8
Other	0.5	0.4	0.7	0.3
Subtotal	8.0	7.7	10.0	5.8
Total cash expenditure	44.6	41.6	34.5	45.8
Net cash remuneration labour and capital	55.4	58.4	65.4	54.2
1. Net crew income				
Net crew share (1)	40.6	53.3	46.6	56.8
Commission				
Subtotal	40.6	53.3	46.6	56.8
2. Net boat share	14.8	5.1	18.8	- 2.6
Less depreciation (2)	6.5	7.1	3.7	4.6
Net vessel income	8.3	- 2.0	15.1	- 7.2

(1) Includes helper's wages and average wages calculated for captains.

(2) Depreciation calculated at 7½% annually.

5. COMPARAISON BETWEEN AVERAGE COST INCURRED AND PRICE RECEIVED PER POUND OF FISH

Boats do not operate on the basis of a single species of fish. It is therefore impossible to determine the average cost per pound for each species of fish landed. Thus, a total average cost is established for all species concerned in each group studied.

Tables 12(a) and 12(b) establish a comparison between the total average cost and average price received. Cape Tormentine fishermen made the highest profit among inshore fishermen, with an average net profit of 58.11¢ for each pound of fish landed. The wooden multi-purpose vessels of the Bay of Fundy made a net profit of 27.56¢ for each pound of fish landed.

Table 12(a) - Comparison between average cost and price received per pound of fish - North and Southeast

Localities and types of vessel (Groups 1-14)	Cost per pound of fish landed (1)	Price received per pound (2)	Profit or loss per pound
	¢	¢	¢
Inshore			
1. Stonehaven-Maisonnette	22.40	23.93	1.53
2. Caraquet	13.81	12.75	- 1.06
3. Lamèque-Shippagan	35.65	35.36	- 0.29
4. Lamèque-Shippagan	16.56	15.73	- 0.83
5. Val Comeau-Néguac	60.13	84.87	24.74
6. Baie-Ste-Anne	27.25	31.24	3.99
7. Pointe Sapin	40.20	36.11	- 4.09
8. Richibuctou	34.97	38.04	3.07
9. Cap-Pelé	59.45	93.31	33.86
10. Cape Tormentine	84.48	142.59	58.11
Midshore			
11. Crabbers	59.88	71.02	11.14
12. Scottish Seiners	17.33	19.08	1.75
13. Crabbers and S. Seiners	57.10	65.43	8.33
14. Shrimpers	45.18	39.59	- 5.59

(1) Depreciation is included in total costs, as are average wages calculated for captains of inshore vessels.

(2) Does not include rebates or other revenue.

Table 12(b) - Comparison between average cost and price received per pound of fish - Bay of Fundy

Localities and types of vessel (Groups 15 - 18)	Cost per pound of fish landed (1)	Price received per pound (2)	Profit or loss per pound
	¢	¢	¢
15. Multi-purpose (wood)	302.30	329.86	27.56
16. Multi-purpose (fibreglass)	61.64	59.76	- 1.88
17. Herring Seiners	4.29	5.05	0.76
18. Longliners	35.94	33.52	- 2.42

(1) Depreciation in included in total costs.

(2) Does not include rebates or other revenue.

6. FISHING EFFORTS

Fishing efforts for a single type of fishing vessel can be expressed in various ways, including the number of crew members, number of fishing trips, and number of days fished. The landings or the value of quantities landed represent the direct results of these efforts. The above data are given in Tables 13, 14 and 15.

Table 16 shows hours fished for the various species. There was an average of 332 fishing hours devoted to lobster fishing out of a total of 671, i.e., 49% of fishing time. Herring took up 19% of fishing time, which was a reduction in comparison with last year because of a generally lower price.

Table 13 - Average operating results of fishing vessels
North and Southeast

Localities and types of vessel (Groups 1 - 14)	Average according to locality and type of vessel							
	(1) O.L.	Complement of crew	Fishing trips	Days at sea	Days fished	Hours fished (2)	Landings	Landed value
	feet	number	number	num.	num.	num.	lb	$
Inshore								
1. Shonehave-Maisonnette	35	2.00	82	82	82	582	90,635	21,689
2. Caraquet	48	3.72	65	81	65	731	255,810	32,624
3. Lamèque-Shippagan	35	2.00	85	85	85	564	58,650	20,739
4. Lamèque-Shippagan	45	3.00	75	94	75	731	180,182	28,349
5. Val Comeau-Néguac	43	2.00	68	68	68	618	37,875	32,145
6. Baie Ste-Anne	43	2.76	87	87	87	737	109,031	34,062
7. Pointe Sapin	39	2.00	69	69	69	552	58,754	21,216
8. Richibuctou	44	2.20	80	80	80	685	74,445	28,318
9. Cap-Pelé	42	2.27	78	78	78	740	49,058	45,774
10. Cape Tormentine	44	2.25	76	76	76	771	39,659	56,551
Midshore								
11. Crabbers	64	5.00	28	65	37	561(3)	443,481	314,951
12. Scottish Seiners	64	5.00	30	84	63	803	1,087,515	207,501
13. Crabbers and S. Seiners	65	4.74	29	74	48	698(3)	771,485	504,795
14. Shrimpers	85	4.00	14	144	144	1,562	673,689	266,744

(1) O.L. : Overall Length
(2) For inshore fishermen, figures calculated on estimates for all types of fishing
(3) Number of hours for lifting, baiting, and setting traps; also number of hours of groundfish trawling, if applicable.

Table 14 - Operating efficiency of fishing vessels
North and Southeast

Localities and types of vessel (Groups 1 - 14)	Average according to locality and type of vessel						
	O.L.	man (1)	trip (2)	day absent from port	man (1)	trip (2)	day of absent from port
		lb	lb	lb	$	$	$
Inshore							
1. Stonehaven-Maisonnette	35	45,318	1,109	1,109	10,845	265	265
2. Caraquet	48	68,766	3,951	3,158	8,770	504	403
3. Lamèque-Shippagan	35	29,325	688	686	10,370	243	243
4. Lamèque-Shippagan	45	60,061	2,394	1,917	9,450	377	302
5. Val Comeau-Néguac	43	18,938	561	561	16,073	476	476
6. Baie-Ste-Anne	43	39,504	1,253	1,253	12,341	392	392
7. Pointe-Sapin	39	29,377	855	855	10,608	309	309
8. Richibuctou	44	33,839	933	933	12,872	355	355
9. Cap-Pelé	42	21,611	633	633	20,165	591	591
10. Cape-Tormentine	44	17,626	522	522	25,134	744	744
Midshore							
11. Crabbers	64	88,696	16,010	6,823	62,990	11,370	4,845
12. Scottish Seiners	64	217,503	36,555	13,024	41,500	6,975	2,485
13. Crabbers and S. Seiners	65	162,761	26,603	10,425	106,497	17,407	6,822
14. Shrimpers	85	168,422	47,276	4,695	66,686	18,719	1,859

(1) Man per fishing season
(2) Per vessel

Table 15 - Average catch rate
North and Southeast

Localities and types of vessel (Groups 1-14)	Complement of crew	Average			
		Catch per hour fished		Catch per man-day absent from port	
		Landings	Value	Landings	Value
	number	lb	$	lb	$
Inshore					
1. Stonehaven-Maisonnette	2.00	156	37	554	133
2. Caraquet	3.72	350	45	848	108
3. Lamèque-Shippagan	2.00	104	37	344	122
4. Lamèque-Shippagan	3.00	246	39	639	101
5. Val Comeau-Méguac	2.00	61	52	281	238
6. Baie-Ste-Anne	2.76	148	46	454	142
7. Pointe Sapin	2.00	106	38	427	154
8. Richibuctou	2.20	109	41	424	161
9. Cap-Pelé	2.27	66	62	279	260
10. Cape Tormentine	2.25	51	73	232	331
Midshore					
11. Crabbers (1)	5.00	791	561	1,311	931
12. Scottish Seiners	5.00	1,354	258	2,605	497
13. Crabbers and S.Seiners (1)	4.74	1,105	723	2,074	1,357
14. Shrimpers	4.00	431	171	1,174	465

(1) Includes crab fishing and groundfishing

Table 16 - Hours fished for principal types of fishing
North and Southeast - Inshore vessels

Vessels according to localities (Groups 1-10)	(1) Average hours fished								
	Lobster (2)	Herring (3)	Mackerel (4)	Cod. Hake, Plaice(5)	Gaspereau	Scallop	Tuna	Salmon	Total
1. Stonehaven-Maisonnette	318	159	39	66					582
2. Caraquet	30	390	300	11					731
3. Lamèque-Shippagan	318	113	55	53			25		564
4. Lamèque-Shippagan	290	285	138	18					731
5. Val Comeau-Néguac	393	27	9	15		174			618
6. Baie-Ste-Anne	402	116	72	27		75		45	737
7. Pointe Sapin	464	45	12	31					552
8. Richibuctou	323	6		90	38	228			685
9. Cap-Pelé	399	122	50			168			739
10. Cape Tormentine	380			25		366			771
(6)	332	126	67	34	4	101	2	5	671

(1) Figures for all principal types of fishing calculated according to fishermen's estimations
(2) Accidental catch of cancer crabs
(3) Accidental catch of mackerel, salmon, gaspereau, and shad.
(4) Accidental catch of herring, gaspereau, salmon, shad, and cod.
(5) Accidental catch of salmon and shad.
(6) General average applied to 40 inshore vessels included in the study.

7. PAYMENT OF WAGES

Owners of inshore vessels in the North and Southeast of the province hire helpers who are generally paid weekly wages, especially when it concerns lobster fishing. Sometimes, hired crew members are paid according to a share system, such as 25% of the catch value of $5.00 per barrel. This is the case for herring and mackerel fishing in particular.

The owners of the inshore vessels themselves have no definite method of obtaining wages, and prefer to make deductions, when necessary, from the boat share. Since they need some wages from their operations, it is preferable and fairer to use a method to find an average wage instead of taking nothing into consideration and making no deduction when calculating the revenue of their vessels.

There is no perfect method of achieving this, but it does seem that a certain weekly wage multiplied by a certain number of weeks can give a reasonable estimate of the average wages.

Table 17 shows the average revenue during the fishing season for each man according to function, i.e., captain, chief engineer, or other.

For the captain of an inshore vessel, the average wage is calculated according to a rate of $275.00 per week, multiplied by the average number of weeks in the fishing season for each group concerned (see the tables in the Appendix for weeks in the fishing season). Three weeks for repairs in the spring are added to the number of fishing-season weeks for all the groups concerned. Thus, the average wages for the captain of Stonehaven-Maisonnette are $275.00 X 21 + 3 = $6,600.00.

The average wages of the first helper for the forty (40) inshore vessels are $4,804.20 for the fishing season. The amounts paid to helpers during the season for the forty (40) inshore vessels are as follows:

First helper	192,168
Second helper	70,243
Third helper	17,305
Fourth helper	210
TOTAL:	279,926

Second, third and fourth helpers are hired primarily for herring and mackerel fishing.

Crew members of crabbers receive a share wage based on the catch value.

The share system is 40% as boat share and 60% as crew share. Crew expenses include fuel, ice, food, and bait. Generally, no commission is paid in addition to share wage.

Crabbers and Scottish seiners (Group 13) have a similar share system: 40% as boat share and 60% as crew share. Table 17 (a) indicates that a crew member could have received, on an average, $56,318.00 in wages for the fishing season on a crabber or Scottish seiner.

On shrimpers, the share system is different. The boat share is 63% and that of the crew, 37%. Ordinarily, crew expenses include only food and unloading charges. In addition to the share wage, there are commissions for certain functions, such as those of captain, engineer, etc. The commissions are based on a percentage of the catch value or on a rate established for each day afloat. A captain could have earned $24,929.00 for the fishing season (Table 17(a)).

There are no wages indicated for captains of inshore vessels in the Bay of Fundy. This means taht they also make some deductions from the boat share, as required.

Since the average number of weeks fished is not available for calculating a captain's wages, the average wage of the first helper is used as a basis for providing the captain with a similar wage.

Table 18 indicates the net income per man per day afloat. Thus, the captain of a shrimper could earn, on an average, $173.12 per day afloat during the fishing season.

Table 17 (a) - Average net income per man per fishing season
North and Southeast

Localities and types of vessel (Groups 1-14)	Days a float	Crew classification				
		Captain (1)	Chief Engineer	Cook	Deckhand	1st helper (2)
Inshore						
1. Stonehaven-Maisonnette	82	6,600				2,487
2. Caraquet	81	5,500				6,022
3. Lamèque-Shippagan	85	6,325				3,825
4. Lamèque-Shippagan	94	6,050				5,196
5. Val Comeau-Néguac	68	4,950				4,460
6. Baie-Ste-Anne	87	7,425				4,820
7. Pointe Sapin	69	6,600				3,985
8. Richibuctou	80	6,600				4,562
9. Cap-Pelé	78	6,875				4,787
10. Cape Tormentine	76	6,875				7,898
Midshore						
11. Crabbers	65	35,613	28,374		27,630	
12. Scottish Seiners	84	21,105			21,004	
13. Crabbers and S. seiners	74	56,318			56,318	
14. Shrimpers	144	24,929	23,186	22,836	22,266	

(1) Wage according to a certain estimate for inshore vessels.
(2) Certain inshore vessels fished part of the season without a helper.

Table 17(b) - Average net income per man per fishing season
Bay of Fundy

Types of vessel (Groups 15-18)	Captain	Crew classification		
		Deckhand	1st helper	2nd helper
15. Multi-purpose (wood)	6,427		6,427	491
16. Multi-purpose (fibreglass)	14,905		14,905	1,405
17. Herring Seiners	18,049	18,049		
18. Longliners	8,779		8,779	3,334

Table 18 - Average net income per man per day afloat
North and Southeast

Localities and types of vessel (Groups 1-14)	Crew classification				
	Captain	Chief engineer	Cook	Deckhand	1st helper
Inshore					
1. Stonehaven-Maisonnette	80.49				30.33
2. Caraquet	67.90				74.35
3. Lamèque-Shippagan	74.41				45.00
4. Lamèque-Shippagan	64.36				55.28
5. Val Comeau-Néguac	72.79				65.59
6. Baie-Ste-Anne	85.34				55.40
7. Pointe Sapin	95.65				57.75
8. Richibuctou	82.50				57.03
9. Cap-Pelé	88.14				61.37
10. Cape Tormentine	90.46				103.92
Midshore					
11. Crabbers	547.89	436.52		425.08	
12. Scottish Seiners	251.25			250.05	
13. Crabbers and S. Seiners	761.05			761.05	
14. Shrimpers	173.12	161.01	158.58	154.63	

8. CAPITAL COST AND FINANCIAL METHOD

The average total cost of capital assets for each group studied is distributed as indicated in Table 19.

Details of the method of financing invested capital are provided in Table 20. For example, the crabbers and Scottish seiners in Group 13, which are newly constructed boats, had an average total investment cost of $788,997.00. Of this amount, $558,043.00 was financed by the New Brunswick Fisheries Development Board, and $161,048.00 through grants.

Table 19 - Average total cost of capital assets
North and Southeast

Localities and types of vessel (Groups 1-14)	Average cost of capital assets distributes as follows				
	Original/or acquisition cost (1)	Improvements losses or sales	Cost of fishing gear	Value of rented equipment	Total cost of capital assets end of 1982(2)
Inshore					
1. Stonehaven-Maisonnette	12,629	2,265	15,526		30,420
2. Caraquet	28,320	11,476	15,455		55,251
3. Lamèque-Shippagan	7,902	2,041	12,017		21,960
4. Lamèque-Shippagan	23,429	11,727	19,150		54,306
5. Val Comeau-Néguac	8,763	3,796	11,339		23,898
6. Baie-Ste-Anne	22,699	7,752	27,748		58,199
7. Pointe Sapin	7,678	3,794	10,894		22,366
8. Richibuctou	10,735	6,420	12,179		29,334
9. Cap-Pelé	14,646	6,837	13,565		35,048
10. Cape Tormentine	11,554	8,690	9,735		29,979
Midshore					
11. Crabbers	218,759	52,783	40,112		311,654
12. Scottish seiners	227,988	64,627	14,489	4,250	311,354
13. Crabbers and S.Seiners	692,851	40,421	53,475	2,250	788,997
14. Shrimpers	245,909	388,735	14,475		648,119

(1) Cost of fishing gear not included
(2) Cumulative capital assets means the total amount without deduction of the amount already depreciated

Table 20 - Method of financing invested capital
North and Southeast

Localities and types of vessel	Average cost of investment as follows:						
	Fisherman		Loans to fishermen (3)				
	Cash payment	Additional payment	Original loan	Additional loan	Grants (1)	Rented equipment	Total cost of cumulative investment
Inshore							
1. Stonehaven-Maisonnette	6,574	17,791	5,100	-	955		30,420
2. Caraquet	7,885	22,889	16,790	1,759	5,927		55,250
3. Lamèque-Shippagan	940	13,747	5,395	872	1,006		21,960
4. Lamèque-Shippagan	2,456	24,610	16,336	3,207	7,698		54,307
5. Val Comeau-Néguac	900	13,985	6,039		2,974		23,898
6. Baie-Ste-Anne	2,266	32,027	12,581	3,306	8,019		58,199
7. Pointe Sapin	1,056	12,832	6,978		1,500		22,366
8. Richibuctou	1,215	15,834	6,025	2,338	3,922		29,334
9. Cap-Pelé	4,638	20,581	5,828		4,001		35,048
10. Cape Tormentine	1,046	17,254	7,477		4,202		29,979
Midshore							
11. Crabbers	12,281	26,925	191,249	36,050	45,149		311,654
12. Scottish Seiners	12,418	23,706	151,463	31,644	87,873	4,250	311,354
13. Crabbers and S. Seiners	28,067	39,589	537,668	20,375	161,048	2,250	788,997
14. Shrimpers	13,278	35,394	225,098	343,425	31,924		649,119

(1) When a vessel is transferred to another owner, the new method of financing does not include the federal grant given previously. This item also includes federal and provincial grants for equipment if required (gutting machines).

(2) Cumulative investment means the total amount without deduction of the amount already depreciated.

(3) Includes the N.B. Fisheries Development Board and other financial institutions.

9. RATIO BETWEEN INVESTMENT AND VALUE OF PRODUCTION

The ratio between total investment and value of production constitutes another measurement of performance which can be considered important for those trying out new types of vessels, and even for governments which finance and grant subsidies for fishing vessels. The ratio between the net investment and the value of production represents a particularly important performance measurement for the owner of a fishing vessel.

Table 21 indicates that Cape Tormentine vessels reflect the most positive ratio. For each $100.00 invested by the owner in his operation, he received an average total revenue of $219.40.

Table 22 indicates the ratio between investment and production value per man. For each $100.00 of net investment, the Cape Tormentine group of vessels produced a value of $219.40 in fish per man.

Table 21 - Ratio between cumulative investment and production value of boats - North and Southeast

Localities and types of vessel (Groups 1-14)	O.L.	Average cumulative investment per vessel		Average total revenue per vessel (3)	Ratio between average total revenue and	
		Total (1)	Net (2)		Average total cumulative investment	Average net cumulative investment
	feet	$	$	$	$	%
Inshore						
1. Stonehaven Maisonnette	35	30,420	29,465	21,689	71.3	73.6
2. Caraquet	48	55,251	49,324	33,882	61.3	68.7
3. Lamèque Shippagan	35	21,960	20,954	23,150	105.4	110.5
4. Lamèque-Shippagan	45	54,307	46,609	33,324	61.4	71.5
5. Val Comeau-Méguac	43	23,898	20,924	32,145	134.5	153.6
6. Baie-Ste Anne	43	58,199	50,180	34,062	58.5	67.9
7. Pointe Sapin	39	22,366	20,866	22,941	102.6	109.9
8. Richibuctou	44	29,334	25,411	30,258	103.1	119.1
9. Cap-Pelé	42	35,048	31,047	45,774	130.6	147.4
10. Cape Tormentine	44	29,979	25,777	56,551	188.6	219.4
Midshore						
11. Crabbers	64	311,654	266,505	315,003	101.1	118.2
12. Scottish Seiners	64	311,354	219,231	216,740	69.6	98.9
13. Crabbers and S. Seiners	65	788,997	625,699	554,193	70.2	88.6
14. Shrimpers	85	649,119	617,195	266,902	41.1	43.2

(1) Total investment includes initial cost or transfer of vessel, cost of gear, all subsequent major improvements, and value of equipment rented.
(2) Net investment does not include subsidy granted at the time of construction or value of rented equipment.
(3) Total revenue includes sale of fish and revenue from rebates or other sources.

Table 22 - Ratio between investment and production value of boats per man - North and Southeast

Localities and types types of vessel (Groups 1-14)	Average per man			Ratio between landed value and cumulative investment per man	
	Total cumulative investment	Net cumulative investment	Landed value (1)	Total	Net
Inshore					
1. Stonehaven-Maisonnette	15,210	14,733	10,845	71,3	73.6
2. Caraquet	14,852	13,259	8,770	59.0	66.1
3. Lamèque-Shippagan	10,980	10,477	10,370	94.4	99.0
4. Lamèque-Shippagan	18,102	15,536	9,450	52.2	60.8
5. Val Comeau-Néguac	11,949	10,462	16,073	134.5	153.6
6. Baie-Ste-Anne	21,037	18,181	12,341	58.5	67.9
7. Pointe Sapin	11,183	10,433	10,608	94.9	101.7
8. Richibuctou	13,334	11,550	12,872	96.5	111.4
9. Cap-Pelé	15,440	13,677	20,165	130.6	147.4
10. Cape Turmentine	13,324	11,456	25,134	188.6	219.4
Midshore					
11. Crabbers	62,331	53,301	62,990	101.1	118.2
12. Scottish Seiners	62,271	43,846	41,500	66.6	94.6
13. Crabbers and S. Seiners	166,455	132,004	106,497	64.0	80.7
14. Shrimpers	162,280	154,299	66,686	41.1	43.2

(1) Includes the sale of fish and not "other revenue".

10. RETURN OF ASSETS

The rate of return on investment constitutes another measurement of profitibility. According to Table 23, the group of vessels from Cape Tormentine registered the best return among inshore and midshore boats, with 76.9% and 89.4% on the net investment.

Table 23 - Return on assets for vessels studied
North and Southeast

Localities and types of vessel (Groups 1-14)	Average				
	Total cost of cumulative investment	Net cost of cumulative investment (1)	Net profit or loss (2)	Average rate of return on total cumulative investment	Average rate of return on net cumulative investment
	$	$	$	%	%
Inshore					
1. Stonehaven-Maisonnette	30,420	29,465	1,386	4.6	4.7
2. Caraquet	55,251	49,324	-1,456	0	0
3. Lamèque-Shippagan	21,960	20,954	2,244	10.2	10.7
4. Lamèque-Shippagan	54,307	46,609	3,487	6.4	7.5
5. Val Comeau-Néguac	23,898	20,924	9,370	39.2	44.8
6. Baie-Ste-Anne	58,199	50,180	4,349	7.5	8.7
7. Pointe Sapin	22,366	20,866	-681	0	0
8. Richibuctou	29,334	25,411	4,221	14.4	16.6
9. Cap-Pelé	35,048	31,047	16,607	47.4	53.5
10. Cape Tormentine	29,979	25,777	23,049	76.9	89.4
Midshore					
11. Crabbers	311,654	266,505	49,454	15.9	18.6
12. Scottish Seiners	311,354	219,231	28,282	9.1	12.9
13. Crabbers and S. Seiners	788,997	625,699	113,710	14.4	18.2
14. Shrimpers	649,119	617,195	-37,490	0	0

(1) Total cost of investment less federal grant and value of equipment rented.
(2) Information according to Tables 10(a) and 10(b), Profits and losses indicated take into account average wages calculated for captains of each inshore fishing vessel group.
0 Not applicable.

11. DISTRIBUTION OF PAYMENTS

In order to repay loans granted by the New Brunswick Fisheries Development Board, owners of midshore boats make payments based on a certain percentage of the value of catches.

Payments made to the Board during the year also include amounts paid as deposits on the purchase of equipment or for major repairs.

Table 24 indicates average payments and deposits made during the year for each type of vessel. These monies are then credited in the Board's books either to purchase of equipment, major repairs, interest incurred, marine insurance or, if there is a balance, to the debt principal. Interest is calculated according to the fiscal year from January 1 to December 31, 1983, and takes into account the reimbursement of 25%, and even 50%, of the calculated and paid cost of interest. This reduction in the amount of interest is carried out under the sharing of interest cost arrangement, Regulation 78-31 of the New Brunswick Fisheries Development Board.

According to Table 25, 43.39% of payments and deposits made by crabbers and Scottish seiners is used to pay interest incurred during the fiscal year, whereas 37.98% is credited to the principal.

It should be noted that this distribution of payments cannot be applied to shrimpers. These vessels cannot even pay the amounts required for interest incurred. In fact, the total payments and deposits for the four boats studied amount to $156,037.00 whereas the interest incurred for 1983 is $156,242.00.

Table 24 Distribution of payments made to the N.B. Fisheries Development Board.
North and Southeast - Midshore vessels.

ITEMS	Averages for midshore vessels		
	Crabbers	Scottish seiners	Crabbers and scottish seiners
	$	$	$
Payments and Deposits	43,615	28,417	87,951
Distributed as follows:			
- purchase of equipment	4,833	2,459	5,914
- major repairs	2,240	1,150	
- interest on loans	14,305	8,087	38,163
- marine insurance	5,925	6,587	10,475
- payments on principal	16,312	10,134	33,399

Table 25 Percentage distribution of payments made to the N.B. Fisheries Development Board
North and Southeast - Midshore vessels

ITEMS	Percentage averages		
	Crabbers	Scottish seiners	Crabbers and scottish seiners
	%	%	%
Payments and Deposits	100.00	100.00	100.00
Distributed as follows:			
- purchase of equipment	11.08	8.65	6.72
- major repairs	5.14	4.05	-
- interest on loans	32.80	28.46	43.39
- marine insurance	13.58	23.18	11.91
- payments on principal	37.40	35.66	37.98

12. Socioeconomic data

These are similar to the data presented in 1982, and in some ways, they are simply a continuation of the information gathered through a questionnaire prepared for this purpose and concern this year. The data were collected during the study of fishing vessels and correspond with the vessels selected.

Since the study has only just begun in the Bay of Fundy region, the information gathered is not as complete, and because of this, certain tables could not be prepared.

According to Tables 26(a) and 26(b), a total of sixty-nine (69) vessels is included in the sampling, i.e., forty (40) inshore boats, fifteen (15) midshore, and fourteen (14) in the Bay of Fundy region. These vessels are all operated by their owners. The average age of operators is 43 years for inshore vessels, 44 for midshore, and 40 for the Bay of Fundy. The operators of inshore vessels have completed an average of 8.7 years of schooling; midshore operators, 8.4; and those in the Bay of Fundy, 9.5. Of the inshore operators, 58% have received some kind of fishing training compared to 87% of the midshore operators and none of the Bay of Fundy operators.

Average years fished (Tables 27(a) and 27(b)) are 22 for inshore operators, 26 for midshore operators and 19 for those in the Bay of Fundy. Occupations other than Fishing include mechanics, welding, carpentry, farming, wood cutting, and sheet metal work.

Total incomes of operator, spouse, and children (Tables 28, 19, and 30) for the inshore vessels amount to $607,872.61. This amount is distributed as follows:

- Unemployment insurance benefits	$323,947.00
- Other government benefits	240.00
- Family allowance	16,423.20
- Jobs	243,614.61
- Other fishing income without boat (e.g., smelt)	23,647.80

This means that the average net income per family is $15,196.82, which does not include regular income from the fishing operation, and 53% of this amount comes from unemployment insurance benefits.

The total income of operator, spouse, and children for the fifteen (15) midshore vessels comes to $249,176.60. The details are as follows:

- Unemployment insurance benefits	$101,333.00
- Other government benefits	684.00
- Family allowance	6,844.80
- Jobs	140,314.80

The average income per family is $16,611.77 which does not include regular income from the fishing operation.

According to the data collected, all the inshore and midshore vessel captains are sons of fishermen, with the exception of two inshore fishermen.

If there were jobs that paid as well as fishing, eight (8) of the inshore and three (3) of the midshore fishermen indicated they would give up fishing. Also, eight (8) of the inshore fishermen indicated they would not encourage their sons to fish, whereas only one of the midshore fishermen said he would not.

Table 26(a) - General description of operator - North and Southeast.

Localities and types of vessel (Groups 1-14)	Number included in sample	Captain is owner of operation		His average age	Maritial Status				Average number of years of schooling completed	Fisheries training	
		Yes	No		single	married	widowed	divorced		Yes	No
Inshore											
1. Stonehaven-Maisonnette	4	4		43		4			10	3	1
2. Caraquet	4	4		38	1	3			9	2	2
3. Lamèque-Shippagan	4	4		41		4			8	1	3
4. Lamèque-Shippagan	4	4		42		4			7	1	3
5. Val Comeau-Méguac	4	4		47		4			7	2	2
6. Baie-Ste-Anne	4	4		42		4			11	4	
7. Pointe Sapin	4	4		54		4			8	1	3
8. Richibuctou	4	4		46		4			8	3	1
9. Cap-Pelé	4	4		34		4			11	3	1
10. Cape Tormentine	4	4		45		4			9	3	1
Midshore											
11. Crabbers	3	3		48		3			8	2	1
12. Scottish seiners	4	4		45		4			7	4	
13. Crabbers and S. seiners	4	4		44		4			9	3	1
14. Shrimpers	4	4		41		3		1	10	4	

Table 26(b) - General description of operator - Bay of Fundy

Localities and types of vessel (Groups 14-18)	Number included in sample	Captain is owner of operation		His average age	Maritial Status				Average number of years of schooling completed	Fisheries training	
		Yes	No		single	married	widowed	divorced		Yes	No
14. Multi-purpose (wood)	4	4		38	1	3			10		4
16. Multi-purpose (fibreglass)	3	3		43		3			11		3
17. Herring seiners	3	3		40		3			11		3
18. Longliners	4	4		33		4			8		4

Table 27(a) - Operator's income - North and Southeast

Localities and types of vessel (Groups 1-14)	Average number of years fished	Occupations other than fishing		Percentage of income from fishing		
		Yes	No	0-25%	26-75%	76-100%
Inshore						
1. Stonehaven-Maisonnette	18	1	3			4
2. Caraquet	18	1	3			4
3. Lamèque-Shippagan	23		4			4
4. Lamèque-Shippagan	20	1	3			4
5. Val Comeau Méguac	25	1	3			4
6. Baie-Ste-Anne	19		4			4
7. Pointe Sapin	32	2	2			4
8. Richibuctou	27	1	3			4
9. Cap Pelé	10	1	3			4
10. Cape Tormentine	25	2	2			4
(1) General average	22					
Midshore						
11. Crabbers	27		3			3
12. Scottish seiners	29		4			4
13. Crabbers and S. seiners	25		4			4
14. Shrimpers	23		4			4
(2) General average	26					

(1) Calculated on the basis of 40 interviews
(2) Calculated on the basis of 15 interviews

Table 27(b) - Operator's income - Bay of Fundy

Localities and types of vessel (Groups 15-18)	Average number of years fished	Occupations other than fishing		Percentage of income from fishing		
		Yes	No	0-25%	26-75%	76-100%
15. Multi-purpose (wood)	21		4			4
16. Multi-purpose (fibreglass)	23		3			3
17. Herring seiners	17		3			3
18. Longliners	16		4			4
(1) General average	19.1					

(1) Calculated on the basis of 14 interviews.

Table 28 - Operator's other income - North and Southeast

Localities and types of vessel (Groups 1-14)	Average per group					
	Unemployment insurance benefits	Social assistance benefits	Other government benefits	Jobs	Other fishing income without boat	Total
	$	$	$	$	$	$
Inshore						
1. Stonehaven-Maisonnette	4,769.75			500.00	136.95	4,870.70
2. Caraquet	4,856.25			1,000.00		5,856.25
3. Lamèque-Shippagan	4,179.25			1,137.50	500.00	5,816.75
4. Lamèque-Shippagan	5,332.50		60.00		450.00	5,842.50
5. Val Comeau-Néguac	4,762.50				350.00	5,112.50
6. Baie-Ste-Anne	4,361.25				4,225.00	8,586.25
7. Pointe Sapin	5,406.25			78.00		5,484.25
8. Richibuctou	4,950.00			1,000.00		5,950.00
9. Cap-Pelé	4,911.25					4,911.25
10. Cape Tormentine	4,700.00			775.00	250.00	5,725.00
(1) General average	4,769.30		6.00	449.05	591.20	5,815.55
Midshore						
11. Crabbers	4,851.00					4,851.00
12. Scottish seiners	4,281.75			250.00		4,531.75
13. Crabbers and S. seiners	4,000.00			500.00		4,500.00
14. Shrimpers	4,483.75		171.00			4,654.75
(2) General average	4,374.33		45.60	200.00		4,619.93

(1) Calculated on the basis of 40 interviews

(2) Calculated on the basis of 15 interviews

Table 29 - Spouses income - North and Southeast

Localities and types of vessel (Groups 1-14)	Average per group					
	Unemployment insurance benefits	Social assistance benefits	Family allowance	Other government benefits	Jobs	Total
Inshore						
1. Stonehaven-Maisonnette	2,980.00		598.50		2,217.68	5,796.18
2. Caraquet	1,704.50		171.00		839.66	2,715.16
3. Lamèque-Shippagan	2,335.00		256.50		2,708.65	5,300.15
4. Lamèque-Shippagan	2,891.75		342.24		2,461.25	5,695.24
5. Val Comeau-Néguac	500.00		342.24		625.00	1,467.24
6. Baie-Ste-Anne	912.00		342.24		7,483.84	8,738.08
7. Pointe Sapin			427.80		10,750.00	11,177.80
8. Richibuctou	3,572.25		342.24		2,469.91	6,384.40
9. Cap-Pelé	3,228.00		855.60		8,986.58	13,070.18
10. Cape Tormentine	1,752.00		427.80		2,390.02	4,569.82
(1) General average	1,987.55		410.58		4,093.26	6,491.39
Midshore						
11. Crabbers	4,106.00		456.32		1,700.00	6,262.32
12. Scottish seiners	750.00		427.80		688.75	1,866.55
13. Crabbers and S. seiners			513.36		2,500.00	3,013.36
14. Shrimpers			427.80			427.80
(2) General average	1,021.20		456.32		1,190.33	2,667.85

(1) Calculated on the basis of 40 interviews

(2) Calculated on the basis of 15 interviews

Table 30 - Children's income - North and southeast

Localities and types of vessel (Groups 1-14)	Average per group				
	Unemployment insurance benefits	Social assistance benefits	Other government benefits	Jobs	Total
Inshore					
1. Stonehaven-Maisonnette					
2. Caraquet	875.00			1,824.71	2,699.71
3. Lamèque-Shippagan	1,250.00			1,250.00	2,500.00
4. Lamèque-Shippagan	4,397.25			4,300.83	8.697.98
5. Val Comeau-Néguac	3,521.00			3,392.64	6,913.64
6. Baie-Ste-Anne	1,125.00			1,000.00	2,125.00
7. Pointe Sapin	1,250.00			1,487.50	2,737.50
8. Richibuctou					-
9. Cap-Pelé					-
10. Cape Tormentine	1,000.00			2,225.00	3,225.00
(1) General average	1,341.83			1,548.06	2,889.89
Midshore					
11. Crabbers	3,133.33			18,050.15	21,183.48
12. Scottish seiners	1,100.00			3,507.75	4,607.75
13. Crabbers and S. seiners	1,650.00			12,069.59	13,719.59
14. Shrimpers				750.00	750.00
(2) General average	1,360.00			7,963.99	9,323.99

(1) Calculated on the basis of 40 interviews

(2) Calculated on the basis of 15 interviews

Table 31 - Operator's opinions - North and Southeast

Localities and types of vessels	Father was a fisherman		Why fish for a living				Would leave fishing for another job		Would encourage son or daughter to fish	
	Yes	No	A good way to make a living	Likes fishing	To get unemployment insurance	No other jobs	Yes	No	Yes	No
Inshore										
1. Stonehaven-Maisonnette	4			4				4	4	
2. Caraquet	4		2	2			1	3	4	
3. Lamèque-Shippagan	4		2	2			1	3	3	
4. Lamèque-Shippagan	4			4				4	2	2
5. Val Comeau-Néguac	4		3	1			1	3	3	1
6. Baie-Ste-Anne	4			4				4	4	
7. Pointe Sapin	3	1	3	1			2	2	1	3
8. Richibuctou	4		2	2			2	2	3	1
9. Cap-Pelé	4		2	2				4	3	1
10. Cape Tormentine	3	1	1	3			1	3	4	
TOTAL	38	2	15	25			8	32	32	8
Midshore										
11. Crabbers	3		2	1				3	3	
12. Scottish seiners	4		4				1	3	4	
13. Crabbers and S. seiners	4		3	1				4	4	
14. Shrimpers	4		1	2		1	2	2	3	1
TOTAL	15		10	4		1	3	12	14	1

APPENDIX

Summary of Fishing Operations and Financial Situation in 1983

ITEMS	Averages for inshore vessels		
	1. Stonehaven Maisonnette	2. Caraquet	3. Lamèque-Shippagan
Fishing season (weeks)	21	17	20
Number of crew members	2.00	3.72	2.00
Number of trips	82	65	85
Days absent from port	82	81	85
Days fished	82	65	85
Hours fished	582	731	564
Landings in pounds	90,635	255,810	58,650
Landed value ($)	21,689	32,624	20,739
Price per pound (¢)	23.93	12.75	35.36
Total revenue ($)	21,689	33,882	23,150
Total cash disbursement ($)	9,848	11,703	9,464
Net crew (1) remuneration ($)	9,152	20,973	10,654
Net cash boat share ($)	2,689	1,206	3,032
Depreciation ($)	1,303	2,662	788
Net profit or loss ($)	1,386	-1,456	2,244
Total number of vessels	4	4	4
Number showing net profit	2	1	3
Number showing net loss	2	3	1

(1) Includes wages of helpers and average wages calculated for captains.

Summary of Fishing Operations and Financial Situation in 1983

ITEMS	Averages for inshore vessels		
	4. Lamèque-Shippagan	5. Val Comeau-Méguac	6. Baie-Ste-Anne
Fishing season (weeks)	19	15	24
Number of crew members	3.00	2.00	2.76
Number of trips	75	68	87
Days absent from port	94	68	87
Days fished	75	68	87
Hours fished	731	618	737
Landings in pounds	180,182	37,875	109,031
Landed value ($)	28,349	32,145	34,062
Price per pound (¢)	15.73	84.87	31.24
Total revenue ($)	33,324	32,145	34,062
Total cash disbursement ($)	13,174	11,353	12,739
Net crew (1) remuneration ($)	14,372	10,627	15,079
Net cash boat share ($)	5,778	10,165	6,244
Depreciation ($)	2,291	795	1,895
Net profit or loss ($)	3,487	9,370	4,349
Total number of vessels	4	4	4
Number showing net profit	3	3	3
Number showing net loss	1	1	1

(1) Includes wages of helpers and average wages calculated for captains.

Summary of Fishing Operations and Financial Situation in 1983

ITEMS	Averages for inshore vessels	
	7. Pointe Sapin	8. Richibuctou
Fishing season (weeks)	21	21
Number of crew members	2.00	2.20
Number of trips	69	80
Days absent from port	69	80
Days fished	69	80
Hours fished	552	685
Landings in pounds	58,754	74,445
Landed value ($)	21,216	28,318
Price per pound (¢)	36.11	38.04
Total revenue ($)	22,941	30,258
Total cash disbursement ($)	10,869	12,842
Net crew (1) remuneration ($)	11,874	12,031
Net cash boat share ($)	198	5,385
Depreciation ($)	879	1,164
Net profit or loss ($)	-681	4,221
Total number of vessels	4	4
Number showing net profit	1	3
Number showing net loss	3	1

(1) Includes wages of helpers and average wages calculated for captains.

Summary of Fishing Operations and Financial Situation in 1983

ITEMS	Averages for inshore vessels	
	9. Cap-Pelé	10. Cape Tormentine
Fishing season (weeks)	22	22
Number of crew members	2.27	2.25
Number of trips	78	76
Days absent from port	78	76
Days fished	78	76
Hours fished	739	771
Landings in pounds	49,058	39,659
Landed value ($)	45,774	56,551
Price per pound (¢)	93.31	142.59
Total revenue ($)	45,774	56,551
Total cash disbursement ($)	15,050	15,809
Net crew (1) remuneration ($)	12,612	16,409
Net cash boat share ($)	18,112	24,333
Depreciation ($)	1,505	1,284
Net profit or loss ($)	16,607	23,049
Total number of vessels	4	4
Number showing net profit	4	4
Number showing net loss	-	-

(1) Includes wages of helpers and average wages calculated for captains.

Summary of Fishing Operations and Financial Situation in 1983

ITEMS	Averages for midshore vessels	
	11. Crabbers	12. Scottish Seiners
Fishing season (weeks)	19	31
Number of crew members	5.00	5.00
Number of trips	28	30
Days absent from port	68	84
Days fished	39	63
Hours fished	561	803
Landings in pounds	443,481	1,087,515
Landed value ($)	314,951	207,501
Price per pound (¢)	71.02	19.08
Total revenue ($)	315,003	216,740
Total cash disbursement ($)	101,955	69,786
Net crew remuneration ($)	146,426	102,920
Net cash boat share ($)	66,622	44,034
Depreciation ($)	17,168	15,752
Net profit or loss ($)	49,454	28,282
Total number of vessels	3	4
Number showing net profit	3	4
Number showing net loss	-	-

Summary of Fishing Operations and Financial Situation in 1983

ITEMS	Averages for midshore vessels	
	13. Crabbers and S. Seiners	14. Shrimpers
Fishing season (weeks)	23	26
Number of crew members	4.74	4.00
Number of trips	31	14
Days absent from port	79	144
Days fished	52	114
Hours fished	698	1,562
Landings in pounds	771,485	673,689
Landed value ($)	504,795	266,744
Price per pound (¢)	65.43	39.59
Total revenue ($)	554,193	266,902
Total cash disbursement ($)	125,036	164,656
Net crew remuneration ($)	272,417	95,589
Net cash boat share ($)	156,740	6,657
Depreciation ($)	43,030	44,147
Net profit or loss ($)	113,710	-37,490
Total number of vessels	4	4
Number showing net profit	4	1
Number showing net loss	-	3